

**ABSTRACT**

A method and apparatus (101) for the recovery of fat soluble compounds, such as beta carotene, is described. In one embodiment of the invention a solution (102) containing a fat soluble compound is passed through a fluidised bed (104) of crystalline metallic ore particles, such as magnetite, allowing the fat soluble compound to bind to the particles to form a complex (109). The fat soluble compound is released from the complex (109) by passing a wash solution (107) through the fluidised bed and subsequently collected in solution (108). The crystalline metallic ore particles may be reused.

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